Name:

at1113exam: Expand, factor, and solve quadratics (v303)

1. Solve the equation.

$$(4x - 3)(5x - 9) \;=\; 0$$

2. Expand the following expression into standard form.

$$(5x - 7)(5x + 7)$$

3. Expand the following expression into standard form.

$$(6x - 5)^2$$

4. Expand the following expression into standard form.

$$(3x - 2)(7x + 6)$$

5. Solve the equation.

$$11x^2 - 39x + 13 \;=\; 4x^2 - 2x + 3$$

6. Factor the expression.

$$9x^2 - 49$$

7. Factor the expression.

$$x^2 - 11x + 24$$

8. Solve the equation with factoring by grouping.

$$15x^2 + 18x + 10x + 12 \;=\; 0$$